

SAS-for Reference

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
 CLP Sample Management Office  
 P.O. Box 818 - Alexandria, Virginia 22313  
 Phone: 703/557-2490 - FTS/557-2490

SAS Number

## SPECIAL ANALYTICAL SERVICES

## Client Request



Regional Transmittal



Telephone Request

- A. EPA Region/Client: Region 10
- B. Authorized By: Bruce Woods (206) 553-1193
- C. Prepared By: Laura Castrilli (206) 553-4323
- D. Date of Request: March 8, 1991
- E. Site Name: Ridgefield Brick and Tile (RBT)  
Ridgefield, Washington
- F. 2 digit Superfund site identifier: N/A

Please provide below a description of your request for Special Analytical Services under the Contract Laboratory Program. In order to most efficiently obtain laboratory capability for your request, please address the following considerations, if applicable. Incomplete or erroneous information may result in a delay in the processing of your request. Please continue response on additional sheets, or attach supplementary information as needed.

## 1. General description of analytical service requested:

The requested analytical service will be used to determine the concentration of chlorophenols in ground water (System No. 1) and leachate (System No. 2) at RBT.

## 2. Definition and number of work units involved (specify whether whole samples or fractions; whether organics or inorganics; whether aqueous or soil and sediments; and whether low, medium or high concentration):

This will be a split sampling event.

Six aqueous environmental samples, two aqueous duplicate samples, and two aqueous equipment rinsate blanks (10 samples/blanks total) will be received to analyze for chlorophenols. From previous sampling data, these samples and blanks are expected to contain low concentrations of chlorophenols.

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3. Purpose of analysis (specify whether Superfund (enforcement or remedial action), RCRA, NPDES, etc.):

The purpose of this analysis will be to supply supporting analytical data to EPA to aid in characterizing the RBT site. EPA is considering a clean closure option for the RBT landfill.

4. Estimated date(s) of collection: March 27 and 28, 1991

5. Estimated date(s) and method of shipment:

Samples will be shipped by Federal Express on March 27 and 28, 1991 following each day's sampling activities.

6. Number of days analysis and data required after laboratory receipt of samples:

Samples must be preserved with 1.5 mL of 10%  $\text{Na}_2\text{S}_2\text{O}_3$  per liter and stored in the dark at 4°C. The laboratory must extract these samples within five days of collection and analysis must follow within 40 days.

7. Analytical protocol required (attach copy if other than a protocol currently used in this program):

The protocol to be used for chlorophenol analysis is a modified version of Method 8040 from Test Methods for Evaluating Solid Waste (SW-846). Copies of both Method 8040 and its modified version are attached to this SAS request.

8. Special technical instructions (if outside protocol requirements, specify compound names, SAS numbers, detection limits, etc.):

Special instructions are included in the modified version of Method 8040. Chlorophenols may be detected as low as 1.0  $\mu\text{g/L}$  using this modified version.

9. Analytical results required (if known, specify format for data sheets, QA/QC reports, Chain-of-Custody documentation, etc.) If not completed, format of results will be left to program discretion.

Data will be reported in the standard Contract Laboratory program Routine Analytical Service format.

## 11. Name of sampling/shipping contact:

Gary Bruno  
PRC Environmental Management, Inc.

Phone: 206/624-2692

12. Data Requirements

| <u>Parameter</u>     | <u>Quantitation Limit</u> | <u>Precision<br/>(percent or<br/>Concentration)</u> |
|----------------------|---------------------------|-----------------------------------------------------|
| <u>Chlorophenols</u> | <u>1.0 µg/L</u>           | <u>± 20</u>                                         |

13. QC Requirements

| <u>Audits required</u>                   | <u>Frequency of Audits</u>                                                                                                                                                         | <u>Limits<br/>(percent or<br/>Concentration)</u> |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <u>Laboratory Control<br/>Samples</u>    | <u>Once per 20 Samples<br/>or once per 12 hours<br/>of continuous assay.</u>                                                                                                       | <u>± 10 %</u>                                    |
| <u>Analytical System<br/>Preparation</u> | <u>See Method 8040<br/>Sections 5.5 and<br/>7.3 and Method 8000<br/>Sections 7.4.2 and<br/>7.5. (Copies of<br/>Methods 8040 and<br/>8000 are attached<br/>to this SAS request.</u> | <u>See Method 8040<br/>Table 4.</u>              |
| <u>MS/MSD</u>                            | <u>Once per 20 samples</u>                                                                                                                                                         | <u>± 30 %</u>                                    |
| <u>Laboratory<br/>Duplicates</u>         | <u>Once per 20 samples</u>                                                                                                                                                         | <u>± 20 %</u>                                    |

14. Action Required if Limits are Exceeded

Recalibrate analysis instrument as indicated and reassay or call Bruce Woods, QA chemist, at 206-553-1193 (FTS 399-1193) or Gerald Muth, CLP DPO, at 206-871-0748 (FTS 390-1282), immediately, for problem resolution.

Please return this request to the Sample Management Office as soon as possible to expedite processing of your request for special analytical services. Should you have any questions or need any assistance, please contact your Regional representative at the Sample Management Office.

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Please provide below a description of your request for Special Analytical Services under the Contract Laboratory Program. In order to most efficiently obtain laboratory capability for your request, please address the following considerations, if applicable. Incomplete or erroneous information may result in a delay in the processing of your request. Please continue response on additional sheets, or attach supplementary information as needed.

### 1. General description of analytical service requested:

The requested analytical service will be used to determine the concentration of polynuclear aromatic hydrocarbons (PAH) in ground water (System No. 1) and leachate (System No. 2) at RDT.

### 2. Definition and number of work units involved (specify whether whole samples or fractions; whether organics or inorganics; whether aqueous or soil and sediments; and whether low, medium or high concentration):

This will be a split sampling event.

Six aqueous environmental samples, two aqueous duplicate samples, and two aqueous equipment rinsate blanks (10 samples/blanks total) will be received to analyze for PAH. From previous sampling data, these samples and blanks are expected to contain low concentrations of PAH.

3. Purpose of analysis (specify whether Superfund (enforcement or remedial action), RCRA, NPDES, etc.):

The purpose of this analysis will be to supply supporting analytical data to EPA to aid in characterizing the RBT site. EPA is considering a clean closure option for the RBT landfill.

4. Estimated date(s) of collection: March 27 and 28, 1991

5. Estimated date(s) and method of shipment:

Samples will be shipped by Federal Express on March 27 and 28, 1991 following each day's sampling activities.

6. Number of days analysis and data required after laboratory receipt of samples:

Samples must be preserved with 1.5 mL of 10%  $\text{Na}_2\text{S}_2\text{O}_3$  per liter and stored in the dark at 4°C. The laboratory must extract these samples within seven days of collection. Analysis must follow within 40 days of extraction.

7. Analytical protocol required (attach copy if other than a protocol currently used in this program):

The protocols to be used for PAH extraction are taken from Test Methods for Evaluating Solid Waste (SW-846). Samples must be extracted by Method 3520 and analysis performed using Method 8310. If interferences are present after initial analyses, clean up will be required using Method 3620. Copies of these methods from SW-846 are attached to this SAS request.

8. Special technical instructions (if outside protocol requirements, specify compound names, SAS numbers, detection limits, etc.):

No special techniques will be required other than specified by SW-846 Methods 3520/3620/8310.

9. Analytical results required (if known, specify format for data sheets, QA/QC reports, Chain-of-Custody documentation, etc.) If not completed, format of results will be left to program discretion.

Data will be reported in the standard Contract Laboratory Program Routine Analytical Service format.

11. Name of sampling/shipping contact:

Gary Bruno  
PRC Environmental Management, Inc.

Phone: 206/624-2692

**12. Data Requirements**

| <u>Parameter</u> | <u>Quantitation Limit</u> | <u>Precision<br/>(percent or<br/>Concentration)</u> |
|------------------|---------------------------|-----------------------------------------------------|
| PAH              | 0.013 - 2.3 $\mu$ g/L*    | $\pm$ 20                                            |

\* See Method 8310 for each compound and its detection limit.

**13. QC Requirements**

| <u>Audits required</u>           | <u>Frequency of Audits</u>                                                                                            | <u>Limits<br/>(percent or<br/>Concentration)</u>           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| Laboratory Control<br>Samples    | Once per 20 Samples<br>or once per 12 hours<br>of continuous assay.                                                   | $\pm$ 10 %                                                 |
| Analytical System<br>Preparation | See Method 8310,<br>Sections 8.0 and<br>Method 8000.<br>Section 8.6. (Copies<br>are attached to<br>this SAS request). | See Method 8310<br>Table 3 and Method<br>8000 Section 8.6. |
| MS/MSD                           | Once per 20 samples                                                                                                   | $\pm$ 30 %                                                 |
| Laboratory<br>Duplicates         | Once per 20 samples                                                                                                   | $\pm$ 20 %                                                 |

If interferences are found in samples and Method 3620 must be applied, then all associated quality control samples must also be processed through this clean up method. Additionally, before Method 3620 may be applied, the analyst should show that the compounds of interest are being quantitatively recovered before applying this method to actual samples (see 3620, Section 8.0).

**14. Action Required if Limits are Exceeded**

Recalibrate analysis instrument as indicated and reassay or call Bruce Woods, QA chemist, at 206-553-1193 (FTS 399-1193) or Gerald Muth, CLP DPO, at 206-871-0748 (FTS 390-1282), immediately, for problem resolution.

Please return this request to the Sample Management Office as soon as possible to expedite processing of your request for special analytical services. Should you have any questions or need any assistance, please contact your Regional representative at the Sample Management Office.